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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,062		03/01/2002	Kanta Yamamoto	FUJH 19.475	3222
26304	7590	04/27/2006		EXAM	INER
KATTEN MUCHIN ROSENMAN LLP				LEVITAN, DMITRY	
575 MAD NEW YO		VENUE 10022-2585		ART UNIT	PAPER NUMBER
	, - · · -			2616	
				DATE MAILED: 04/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/087,062	YAMAMOTO, KANTA	
Office Action Summary	Examiner	Art Unit	
	Dmitry Levitan	2616	,
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet	with the correspondence address	-
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUI 136(a). In no event, however, may will apply and will expire SIX (6) M e. cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
 1) ⊠ Responsive to communication(s) filed on 01 M 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under the condition of the condi	s action is non-final. ance except for formal m		
Disposition of Claims			
4) ☐ Claim(s) <u>1-6</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-6</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	awn from consideration.		
9)⊠ The specification is objected to by the Examin	or.		
10) The drawing(s) filed on is/are: a) acc		o by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abey	rance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority documen application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have been in the law (PCT Rule 17.2(a)).	Application No en received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)		v Summary (PTO-413) o(s)/Mail Date :	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		f Informal Patent Application (PTO-152)	

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Specification

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 2. The disclosure is objected to because of the following informalities: text on page 8 lines 13-15 is unclear as written.
- 3. Text on page 2 regarding decreasing the number of connection lines for 1-to-n connection between nodes is unclear, because the disclosure does not describe how to achieve this reduction.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 limitations "demultiplexing the multiplexed packet signal to each packet" are not clear, because it is not understood what is "each packet" in the context of the claim.

Claim 4 recites the limitation "the self interface board" in line 8. There is insufficient antecedent basis for this limitation in the claim.

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Claim 4 limitation "a path accommodated in the self interface board is routed to a predetermined path accommodated in the self interface board" is unclear as written.

Claim 4 limitation "a path not accommodated in the self interface board is routed to the other dedicated interface board accommodating the path concern" is unclear as written.

Claim 5 recites the limitation "the working side and the protection side of the interface board" in lines 6-7. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 is unclear as written, because it is not understood what path is redundant: from the dedicated board to the interface board or from the interface board to the dedicated board.

Claim 6 limitation: "the path switch function of the switch board" is unclear, because the limitation of claim 5 comprises "the dedicated interface board having the path switch function", making claim 6 limitation "the path switch function" confusing.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1-3, 5 and 6 are rejected (as best understood) under 35 U.S.C. 103(a) as being unpatentable over Noser (US 5,365,518) in view of Elliot (US 6,587,470).
- 8. Regarding claims 1-3, Noser substantially teaches transmission equipment (cross-connect switch 12, shown on Fig. 1 and 2:45-63) comprising:

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a switch with a cross-connect portion (cross-connect matrix 14 on Fig. 1 and 2:45-50) for making a multiplexed packet signal to branch to predetermined paths (inherently part of the system, because Noser teaches the system server 10 with STM-1 output is capable of broadcasting packets as shown on Fig. 1 and 5:3-7), and

a plurality of interface units for interfacing the cross-connect portion with a multiplexed signal being transmitted on a path (input and output units 16, 18 and server 10, interfacing cross-connect matrix 14 with STM-1 signals transmitted/received to/from output/input paths, as shown on Fig. 1 and 3:1-47),

wherein at least one of the plurality of interface units is a dedicated interface having a path switch function of demultiplexing the multiplexed packet signal to each packet to route the demultiplexed packet signal to a predetermined path (server 10, shown on Fig. 1 and 2, comprising packet switch modules 32 and MUX/DEMUX modules 24 and 26 to route the demultiplexed packet signal to a predetermined path 58 3:35-47).

Noser does not teach designing the switch and the interface units as boards, inserted in slots mounted on a shelf frame and interconnected through a backboard and the packets as ATM cells or Frame relay packets.

Elliot teaches designing the switch and the interface units as boards, inserted in slots mounted on a shelf frame and interconnected through a backboard (switch/cross-connect design, shown on Fig. 4A and B, comprising boards, inserted in slots mounted on a shelf frame and connected with a backplane 7:25-65) and the packets as ATM cells or Frame relay packets (ATM and Frame relay signals 5:56-64).

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to add designing the switch and the interface units as boards, inserted in slots mounted on a shelf frame and interconnected through a backboard and utilizing ATM and Frame relay signals of Elliot to the system of Noser to improve the system maintainability by simplifying the failed units replacement and making system compatible with widely used ATM and Frame relay standards.

Regarding claims 5 and 6 (as best understood), Noser teaches the dedicated interface board having redundant path function of routing the demultiplexed signal comprising working and protection sides of the dedicated interface board and working and protection switch matrix (A and B sides on Fig. 2, wherein one is working and the other is protection 4:20-50).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Levitan whose telephone number is (571) 272-3093. The examiner can normally be reached on 8:30 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on (571) 272-7529. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Dmitry Levitan

Examiner

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